

Domain: Numbers and C	Operation in	Base Ten					
Indicator	Standard	1 – Beginner Learner	2 – Developing Learner	3 – Proficient Learner	4 – Distinguished Learner	Evidence	Assessed
Understand the place	NBT1	In any multi-digit number,	In any multi-digit number,	In any multi-digit number,	N/A	See NBT	
value system.	NBT2	recognizes a digit in one place	recognizes a digit in one place	recognizes a digit in one place		Assessment	
		represents 10 times as much as	represents 10 times as much	represents 10 times as much		Folder	
		it represents in the place to it	as it represents in the place to	as it represents in the place to			
		right or 1/10 of what it	it right or 1/10 of what it	it right or 1/10 of what it			
		represents in the place to its	represents in the place to its	represents in the place to its			
		left by using manipulatives or	left and uses whole number	left and uses whole number			
		visual models.	exponents to denote powers	exponents to denote powers			
			of 10.	of 10 and uses symbols to			
				compare two powers of 10			
				expressed exponentially.			
Read, write, and	NBT3	Student demonstrated limited	Student independently and	Student independently and	Student independently	See NBT	
compare decimals		understanding, OR	consistently demonstrates	consistently demonstrates ALL	and consistently	Assessment	
		independently and consistently	THREE of the following:	of the following:	demonstrates	Folder	
		demonstrates ONE of the			understanding in all five		
		following:	Reads and writes decimals to	Reads and writes decimals to	parts described in the		
			the thousandths place using	the thousandths place using	"proficient leaner"		
		Reads and writes decimals to	base-ten numerals.	base-ten numerals.	column and compares		
		the thousandths place using	OR	AND	three or more decimals to		
		base-ten numerals.	Reads and writes decimals to	Reads and writes decimals to	the thousandths place		
		OR	the thousandths place using	the thousandths place using	using <, >, and = to record		
		Reads and writes decimals to	number names.	number names.	the results of the		
		the thousandths place using	OR	AND	comparison.		
		number names.	Reads and writes decimals to	Reads and writes decimals to			
		OR	the thousandths place using	the thousandths place using			
		Reads and writes decimals to	expanded form.	expanded form.			
		the thousandths place using	OR	AND			
		expanded form.	Compares two decimals to the	Compares two decimals to the			
		OR	thousandths place using <, >,	thousandths place using <, >,			
		Compares two decimals to the	and = to record the results of	and = to record the results of			
		thousandths place using <, >,	the comparison.	the comparison.			
		and = to record the results of					
	ļ	the comparison.					
Rounding decimals	NBT4	Uses place value understanding	Uses place value	Uses place value	Uses place value	See NBT	
		to round decimals to nearest	understanding to round	understanding to round	understanding to round	Assessment	
		whole number.	decimals to the tenths place.	decimals to the hundredths	decimals to the	Folder	
	L			place.	thousandths place.		
Fluently multiply multi-	NBT5	Fluently multiplies multi-digit	Fluently multiply multi-digit	Fluently multiply multi-digit	Fluently multiply multi-	See NBT	
digit whole numbers		whole numbers using the	whole numbers using the	whole numbers using the	digit whole numbers	Assessment	
		standard algorithm (or other	standard algorithm (or other	standard algorithm (or other	using the standard	Folder	



		strategies demonstrating understanding of multiplication) – 2 digits by 1 digit.	strategies demonstrating understanding of multiplication) – 2 digits by 2 digits.	strategies demonstrating understanding of multiplication) – 3 digits by 2 digits.	algorithm (or other strategies demonstrating understanding of multiplication) – 4 digits by 2 digits.		
Fluently divide using illustrations and models	NBT6	Divides whole numbers up to three-digit dividends and one- digit divisors which are multiples of ten using strategies based on place value, the properties of operations and/or the relationship between multiplication and division.	Divides whole numbers up to four-digit dividends and one- digit divisors which are multiples of ten using strategies based on place value, the properties of operations and/or the relationship between multiplication and division.	Divides whole numbers up to four-digit dividends and two- digit divisors which are multiples of ten using strategies based on place value, the properties of operations and/or the relationship between multiplication and division. AND Illustrates and explains the calculations by using equations, rectangular arrays, and area models. AND Checks reasonableness of answers by using multiplication or estimation.	N/A	See NBT Assessment Folder	
Use the four operations with decimals	NBT7	Student demonstrated limited understanding, OR independently and consistently demonstrates TWO of the following: Adds decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. OR Subtracts decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations,	Student independently and consistently demonstrates THREE of the following: Adds decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. OR Subtracts decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the	Student independently and consistently demonstrates ALL of the following: Adds decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. AND Subtracts decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the	Student independently and consistently demonstrates understanding in all five parts described in the "proficient leaner" column and uses decimals to the thousandths place.	See NBT Assessment Folder	



and/or the relationship	relationship between addition	relationship between addition	
between addition and	and subtraction.	and subtraction.	
subtraction.	OR	AND	
OR	Multiplies decimals to	Multiplies decimals to	
Multiplies decimals to	hundredths, using concrete	hundredths, using concrete	
hundredths, using concrete	models or drawings and	models or drawings and	
models or drawings and	strategies based on place	strategies based on place	
strategies based on place value,	value, properties of	value, properties of	
properties of operations.	operations.	operations.	
OR	OR	AND	
Divides decimals to	Divides decimals to	Divides decimals to	
hundredths, using concrete	hundredths, using concrete	hundredths, using concrete	
models or drawings and	models or drawings and	models or drawings and	
strategies based on place value,	strategies based on place	strategies based on place	
properties of operations.	value, properties of	value, properties of	
OR	operations.	operations.	
Relates the strategy to a	OR	AND	
written method and explain the	Relates the strategy to a	Relates the strategy to a	
reasoning used.	written method and explain	written method and explain	
	the reasoning used.	the reasoning used.	

Domain: Operations and	Algebraic Tl	ninking					
Indicator	Standard	1 – Beginner Learner	2 – Developing Learner	3 – Proficient Learner	4 – Distinguished Learner	Evidence	Assessed
Write and interpret	OA1	Use parentheses, brackets, or	Use parentheses, brackets, or	Use parentheses, brackets, or	Student independently	See OA	
numerical expressions	OA2	braces to write simple	braces to write simple	braces to write and evaluate	and consistently	Assessment	
		numerical expressions.	numerical expressions.	numerical expressions.	demonstrates	Folder	
			AND	AND	understanding in all five		
			Interpret simple numerical	Interprets numerical	parts described in the		
			expressions without	expressions without	"proficient leaner"		
			evaluating them.	evaluating them.	column and solves		
					numerical expressions in		
					real world and		
					mathematical problems.		
Generate two	OA3	Uses a given rule to generate	Identifies the relationship	Uses a given rule to generate	Student independently	See OA	
numerical patterns		two numerical patterns.	between corresponding terms	two numerical patterns.	and consistently	Assessment	
using a given rule.			by completing a function or	AND	demonstrates	Folder	
Identify apparent			input/output table.	Identifies the relationship	understanding in all five		
relationships between				between corresponding terms	parts described in the		
corresponding terms by				by completing a function or	"proficient leaner"		
completing a function				input/output table.	column and creates real-		
table or input/output				AND	world and mathematical		



table. Using the terms		Uses the terms created, form	problems to be graphed	
created, form and		and graph ordered pairs on a	in the first quadrant of a	
graph ordered pairs on		coordinate plane	coordinate plane.	
a coordinate plane				

Domain: Measurement	Domain: Measurement and Data								
Indicator	Standard	1 – Beginner Learner	2 – Developing Learner	3 – Proficient Learner	4 – Distinguished Learner	Evidence	Assessed		
Solving multi-step, real world problems with conversions	MD1	Identifies the correct conversion among different- sized standard units within a given measurement system.	Converts among different- sized standard measurement units within a given measurement system and solves single-step real world problems by using manipulatives or visual models.	Converts among different- sized standard measurement units within a given measurement system and solves multi-step real world problems by using manipulatives or visual models. AND Chooses the appropriate measurement unit based on the given context.	N/A	See MD Assessment Folder			
Use data in a line plot to solve fraction problems	MD2	Uses operations on fractions with <u>like</u> denominators of 2 and 4 to solve problems involving information in line plots.	Uses operations on fractions with denominators of 2 and 4 to solve problems involving information in line plots.	Uses operations on fractions with denominators of 2, 4, and 8 to solve problems involving information in line plots and interprets the solution in relation to the data.	Student independently and consistently demonstrates understanding in all five parts described in the "proficient leaner" column and uses fractions with a denominator of 10 and 12.	See MD Assessment Folder			
Recognizes and measure volume of solid figures	MD3 MD4	Recognizes volume as an attribute of solid figures.	Recognizes volume as an attribute of solid figures and with a visual model understands that volume is measured using cubic units and can be found by packing a solid figure with unit cubes and counting them.	Recognizes volume as an attribute of solid figures and understands that volume is measured using cubic units and can be found by packing a solid figure with unit cubes and counting them. AND Represents the volume of a solid figure as "n" cubic units (cubic cm, cubic in, cubic ft, and improvised units). AND	N/A	See MD Assessment Folder			



				Writes an equation that illustrates the unit cube pattern.			
Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.	MD5	Given a visual model and the formulas for finding volume, solves real-world and mathematical problems by applying the formulas for volume.	Given a visual model, solves real-world and mathematical problems by applying the formulas for volume, relating volume to the operations of multiplication and addition, and recognizing volume is additive by finding the volume of solid figures of two non- overlapping parts.	Solves real-world and mathematical problems by applying the formulas for volume, relating volume to the operations of multiplication and addition, and recognizing volume is additive by finding the volume of solid figures of two non-overlapping parts.	N/A	See MD Assessment Folder	



Domain: Numbers and O	Jomain: Numbers and Operations - Fractions									
Indicator	Standard	1 – Beginner Learner	2 – Developing Learner	3 – Proficient Learner	4 – Distinguished Learner	Evidence	Assessed			
Add and subtract fractions and mixed numbers	NF1	Adds or subtracts two fractions with unlike denominators using only fractions with denominators of 2, 4, 5, or 10 in such a way as to produce an equivalent sum or difference with like denominators.* *below grade level	Adds or subtracts two fractions or mixed numbers with unlike denominators using only fractions with denominators of 2, 4, 5, or 10 in such a way as to produce an equivalent sum or difference with like denominators.* *below grade level	Adds and subtracts two fractions or mixed numbers with unlike denominators in such a way as to produce an equivalent sum or difference with like denominators.	Student independently and consistently demonstrates understanding in all parts described in the "proficient leaner" column and uses three or more fractions or mixed numbers.	See NF Assessment Folder				
Solve word problems involving addition and subtraction of fractions using benchmark fractions and number sense of fractions	NF2	Solves word problems involving addition and subtraction of fractions and mixed numbers using only denominators of 2, 4, 5, or 10 or benchmark fractions with unlike denominators, referring to the same whole by using visual fraction models or equations.	Solves word problems involving addition and subtraction of fractions and mixed numbers referring to the same whole in cases of unlike denominators by using visual fraction models or equations.	Describes a model to represent word problems involving addition and subtraction of fractions and mixed numbers referring to the same whole in cases of unlike denominators by using visual fraction models or equations. AND Assesses and justifies reasonableness using benchmark fractions and number sense of fractions.	N/A	See NF Assessment Folder				
Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. Example: 3 5 can be interpreted as "3	NF3	Solves word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers by using manipulatives or visual models to identify between which two whole numbers the answer lies.	Solves word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers. AND Interprets the fraction as division of the numerator by the denominator.	Solves word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers. AND Interprets the fraction as division of the numerator by the denominator. AND Identifies a simple model representing the situation AND Describes a model to represent the situation.	Student independently and consistently demonstrates understanding in all parts described in the "proficient leaner" column and solves multi- step real world problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.	See NF Assessment Folder				



divided by 5 and as 3 shared by 5".							
Multiplies a fraction or whole number by a fraction. Finds the area of a rectangle by tiling it with unit squares	NF4	Multiplies a whole number by a fraction.	Multiplies a fraction by a fraction using visual fraction models.	Multiplies a fraction by a fraction. AND Uses context for the mathematics, including rectangular areas.	Student independently and consistently demonstrates understanding in all parts described in the "proficient leaner" column and creates context for the mathematics, including rectangular area.	See NF Assessment Folder	
Interprets multiplication as scaling	NF5	Interprets multiplication scaling by comparing the size of a product to the size of one factor on the basis of the size of the second factor by performing the indicated multiplication where one factor is a fraction less than one using manipulatives or visual models.	Interprets multiplication scaling by comparing the size of a product to the size of one factor on the basis of the size of the second factor without performing the indicated multiplication where one factor is a fraction less than one.	Interprets multiplication scaling by comparing the size of the product to the size of one factor on the basis of the size of the second factor without performing the indicated multiplication, focusing on one factor being a fraction greater than or less than one.	N/A	See NF Assessment Folder	
Multiplying with fractions	NF6	Solves real world problems involving multiplication of a fraction and a fraction by using visual fraction models or equations to represent the problem.	Solves real world problems involving multiplication of a fraction and a fraction, and a fraction and a whole number by using visual fraction models or equations to represent the problem.	Solves real world problems involving multiplication of a fraction and a fraction, a fraction and a whole number, and a fraction and a mixed number by using visual fraction models or equations to represent the problem.	Student independently and consistently demonstrates understanding in all parts described in the "proficient leaner" column and solves multi- step real world problems involving multiplication of a fraction and a fraction, a fraction and a fraction and a mixed number by using visual fraction models or equations to represent the problem.	See NF Assessment Folder	
Divide unit fractions by whole numbers and	NF7	Divide a whole number or a	Interpret the division of a whole number or a unit	Solves real world problems	Student independently	See NF Assessment	
whole numbers by unit fractions.		using visual fraction models.	fraction by a unit fraction using visual fraction models.	fractions by whole numbers	demonstrates understanding in all parts	Folder	



		and division of whole numbers	described in the	
		by unit fractions	"proficient leaner"	
		AND	column and solves multi-	
		Uses visual fraction models	step real world problems	
		and equations to represent	involving the division of	
		the problem.	unit fractions by whole	
			numbers and division of	
			whole numbers by unit	
			fractions.	

Domain: Geometry							
Indicator	Standard	1 – Beginner Learner	2 – Developing Learner	3 – Proficient Learner	4 – Distinguished Learner	Evidence	Assessed
Graphing on the	G1	Represents real-world	Represents real-world	Represents real-world	Student independently and	See G	
coordinate plane	G2	mathematical problems by	mathematical problems by	mathematical problems by	consistently demonstrates	Assessment	
		locating points in the first	locating points in the first	locating points in the first	understanding in all parts	Folder	
		quadrant of a coordinate	quadrant of a coordinate	quadrant of a coordinate	described in the "proficient		
		plane.	plane.	plane.	leaner" column and locates		
			AND	AND	and graphs points in the		
			Represents real-world	Represents real-world	second quadrant.		
			mathematical problems by	mathematical problems by			
			graphing points in the first	graphing points in the first			
			quadrant of a coordinate	quadrant of a coordinate			
			plane.	plane.			
				AND			
				Interprets coordinate values of			
				points in the context of the			
				situation.			
Understand and classify	G3	Identifies two-dimensional	Classifies two-dimensional	Classifies two-dimensional	N/A	See G	
2D figures in a	G4	figures based on properties.	figures in a hierarchy based on	figures in a hierarchy based on		Assessment	
hierarchy		AND	properties.	properties.		Folder	
		Classifies two-dimensional	AND	AND			
		figures based on their	Understands that shared	Understands that attributes			
		attributes.	attributes categorize two-	belonging to a category of			
			dimensional figures.	two-dimensional figures also			
				belong to all subcategories of			
				that category.			
				AND			
				Uses appropriate tools to			
				determine similarities and			
				differences between			
				categories and subcategories.			



Domain: Standards of Mathematical Practice										
Indicator	Standard	1 – Rarely	2 – Sometimes	3 – Usually	4 – Always	Evidence	Assessed			
Make sense of problems and persevere in solving them.	SMP.1	Student is rarely able (or unable) to figure out the meaning of a problem and is rarely able to independently determine an appropriate strategy/tool to use to solve the problem. Constant teacher prompting is usually required.	Student inconsistently explains to himself/herself the meaning of a problem and/or is inconsistently able to independently determine an appropriate strategy to use to solve problems. Student needs prompting by the teacher on a regular basis.	Student usually explains to himself/ herself the meaning of a problem and determines an appropriate strategy/ tool to use to solve grade-level appropriate problems.	Student self-starts and is consistently able to make the problem make sense to him/her using prior knowledge. The student can determine an appropriate strategy to use to solve grade-level appropriate problems. Student can explain the meaning of a problem and look for ways to solve it. The student may use concrete objects or pictures to help them conceptualize and solve problems.		Q1* Q2, Q3, Q4			
Reason abstractly and quantitatively	SMP.2	Student is rarely able to connect a quantity to a written symbol and demonstrate a clear understanding of the meaning of quantity as represented in a problem solved using objects, pictures, drawings or actions.	Student is inconsistently able or may require teacher prompting to connect a quantity to a written symbol and demonstrate a clear understanding of the meaning of quantity as represented using objects, pictures, drawings or actions.	Student usually connects a quantity to a written symbol and demonstrates a clear understanding of the meaning of quantity as represented using objects, pictures, drawings or actions.	Student consistently and independently connects a quantity to a written symbol and demonstrates a clear understanding of the meaning of quantity as represented using objects, pictures, drawings or actions. Student recognizes that a number represents a specific quantity and connects the quantity to written symbols.		Q1* Q2, Q3, Q4			
Construct viable arguments and critique the reasoning of others	SMP.3	Student is rarely able to explain his/her mathematical reasoning and/or respond to others' thinking. Student is rarely able to explain his/her thinking or participate in mathematical discussions.	Student is inconsistently able to explain his/her mathematical reasoning and/or respond to others' thinking.	Student can usually explains his/her mathematical reasoning and responds to others' thinking.	Student consistently and independently explains his/her mathematical reasoning and responds to others' thinking.		Q1* Q2, Q3, Q4			



Model with	SMP.4	Student rarely represents	Student sometimes represents	Student usually represents	Student consistently	Q1*
mathematics		problem situations in multiple	problem situations in multiple	problem situations in	represents problem	Q2, Q3,
		ways. Including numbers, words,	ways. Including numbers,	multiple ways. Including	situations in multiple ways.	Q4
		drawing pictures, using objects,	words, drawing pictures, using	numbers, words, drawing	Including numbers, words,	
		acting out, making a chart, list, or	objects, acting out, making a	pictures, using objects,	drawing pictures, using	
		graph, etc. Teacher prompting is	chart, list, or graph, etc.	acting out, making a chart,	objects, acting out, making a	
		usually required.	Teacher prompting is	list, or graph, etc. Teacher	chart, list, or graph, etc.	
			frequently required.	prompting is sometimes	Teacher prompting is rarely	
				required.	necessary.	
Use appropriate tools	SMP.5	Student is rarely able to consider	Student sometimes considers	Student usually considers	Student consistently and	Q1*
strategically		strategies and tools available to	available tools and strategies	available tools and	independently considers	Q2, Q3,
		solve a problem or decide which	available to solve a problem	strategies when solving a	available tools and	Q4
		tool/ strategy would be helpful.	with teacher prompting or	problem and decides which	strategies (including	
			examples and decides which	tools/strategies might be	estimation) when solving a	
			tools/strategies might be	helpful.	problem and decides which	
			helpful.		tools/strategies might be	
					helpful.	
Attend to precision	SMP.6	Student begins to explain their	Student is sometimes able to	Student inconsistently	Student is able to	Q1*
		mathematical reasoning with	communicate mathematical	communicates	consistently communicate	Q2, Q3,
		others but does not use clear	reasoning using clear and	mathematical reasoning	mathematical reasoning	Q4
		and precise language, or student	precise language.	using clear and precise	using clear and precise	
		is unable to communicate		language.	language.	
		mathematical reasoning.				
Look for and make use	SMP.7	Student is rarely able to see the	Student is sometimes able to	Student usually looks	Student consistently looks	Q1*
of structure		pattern or structure in any given	see the pattern or structure in	closely to discover a	closely to discover a pattern	Q2, Q3,
		problem. Student rarely adopts	any given problem. Student	pattern or structure in any	or structure in any given	Q4
		mental math strategies based on	sometimes adopts mental	given problem. Student	problem. Student	
		patterns (making 5, using ten	math strategies based on	usually adopts mental	consistently adopts mental	
		frame and seeing 10, counting	patterns (making 5, using ten	math strategies based on	math strategies based on	
		on, etc.). Teacher prompting is	frame and seeing 10, counting	patterns (making 5, using	patterns (making 5, using	
		usually required.	on, etc.). Teacher prompting is	ten frame and seeing 10,	ten frame and seeing 10,	
			frequently required.	counting on, etc.). Teacher	counting on, etc.). Teacher	
				prompting is sometimes	prompting is rarely	
				required.	necessary.	
Look for and express	SMP.8	Student rarely notices repetitive	Student sometimes notices	Student usually notices	Student consistently notices	Q1*
regularity in repeated		actions in counting and	repetitive actions in counting	repetitive actions in	repetitive actions in	Q2, Q3,
reasoning		computation, etc. Teacher	and computation, etc. Teacher	counting and computation,	counting and computation,	Q4
		prompting is usually required.	prompting is frequently	etc. Teacher prompting is	etc. Students continually	
			required.	sometimes required.	checks his/her work by	
					asking themselves, "Does	
					this make sense?"	